

ABSTRACT OF THE DISCLOSURE

A method for noninvasive on-line secondary path modeling for the
5 filtered-X LMS algorithm actively controls periodic noise. The method, based in
the frequency domain, uses the concept of linear independence of two
equations/two unknowns to arrive at the secondary path estimate. Linear
independence of the two equations is achieved by adjusting the control filter
output via the filter coefficients prior to the acquisition of the second set of data
10 corresponding to the second equation.